UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,729	. 04/27/2005	Shigeyoshi Kouno	P27797	8751
7055 7590 12/11/2007 GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE			EXAMINER	
			TALBOT, MICHAEL	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			12/11/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)	
	10/532,729	KOUNO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michael W. Talbot	3722	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the (correspongence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on <u>15 O</u> This action is FINAL. Since this application is in condition for alloward closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pr		
	zx parto quayro, rocc cres vi,		
Disposition of Claims 4) Claim(s) 1-15 is/are pending in the application			
4a) Of the above claim(s) <u>1,2 and 11-15</u> is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>3-10</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on 27 April 2005 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.) accepted or b) ⊠ objected to drawing(s) be held in abeyance. So tion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica prity documents have been receiv nu (PCT Rule 17.2(a)).	ition No ved in this National Stage	
Attack was and (a)			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/20/05.	4) Interview Summa: Paper No(s)/Mail 5) Notice of Informal 6) Other:		

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 3-10 in the reply filed on 15 October 2007 is acknowledged.

In Applicant's response dated 15 October 2007, a provisional election was made without traverse to prosecute the invention of Group II, claims 3-10. Therefore Groups I,III and IV comprising claims 1,2 and 11-15 are withdrawn from further consideration by the examiner, pursuant to 37 CFR 1.142(b), as being drawn to a non-elected invention.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: (1) character reference "41" shown in Fig. 1. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly

Application/Control Number:

10/532,729

Art Unit: 3722

labeled as "Annotated Sheets" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Specification

3. The disclosure is objected to because of the following informalities:

Refer to page 3, line 20, change the word "dap" to --tap-- within the phrase "at the dap die is an obstacle" so as to read --at the tap die is an obstacle--.

Refer to page 11, line 27, character reference "small diameter through hole 61" should be changed so as to read --small diameter through hole 61H--.

Refer to page 18, line 7, character reference "not-rotating head 181" should be changed so as to read --non-rotating head 181--.

Refer to page 20, line 7, change the word "he" to --the-- within the phrase "he prepared hole" so as to read --the prepared hole--.

Refer to page 21, lines 8 and 9, the two occurrences of character reference "space 46" should be changed so as to read --space 246--.

Appropriate correction is required.

Claim Objections

4. Claim 1 is objected to because of the following informalities:

Claim 1 recites the limitation "the vertical direction" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 5. basis for the rejections under this section made in this Office action:

Art Unit: 3722

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

6. Claims 3 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Endo et al.

'239. Endo et al. '239 shows in Figures 1-5 a tapping device (3,5,7,9,11) comprising a tap holder

(37A,37B) provided in a shank body (27) which can be freely attached to a rotating mold

indexing device (5) rotatably provided at a punch press (1) so as to be moveable in a vertical

direction, the tap holder having a tap (49A,49B) at its lower end and being provided so as to be

movable only in the vertical direction and urged upwards (via lifter spring 31). Endo et al. '239

shows a downward movement transmitter (13) for transmitting downward motion of a ram (13)

provided at the punch press so as to be moveable in the vertical direction to the tap holder, the

downward movement transmitter being at an upper part of the shank body. Endo et al. '239

shows a work piece brace (piece at bottom of 27 at 49A,49B) rotatably provided at a lower end

of the shank body.

7. Claims 3 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by JP

11005127. JP 11005127 shows in Figures 3 and 5 a tapping device (1,3) comprising a tap

holder (7) provided in a shank body (31,33) which can be freely attached to a rotating mold

indexing device (3) rotatably provided at a punch press so as to be moveable in a vertical

direction, the tap holder having a tap (19) at its lower end and being provided so as to be

movable only in the vertical direction and urged upwards (via lifter spring 13). JP 11005127

shows a downward movement transmitter (9,27,35) for transmitting downward motion of a ram

(53) provided at the punch press so as to be moveable in the vertical direction to the tap holder,

the downward movement transmitter being at an upper part of the shank body. JP 11005127

shows the downward movement transmitter having a pressing device (9) for pressing the tap

holder downward by fluid pressure supplied from the ram (via 39,55) and a shock absorber (35).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al. '239 in view of JP 11005127. Endo et al. '239 further shows an elastic member (45) which can freely transmit downward motion of the ram at the downward movement transmitter to lower the tap holder against upward energizing force of the tap holder. Endo et al. '239 lacks an oil channel for guiding oil supplied from the ram to the tap within the downward movement transmitter and the tap holder.

JP 11005127 shows in Figures 3 and 5 a tapping device (1,3) comprising a tap holder (7) provided in a shank body (31,33) and a downward movement transmitter (9,27,35) for transmitting downward motion of a ram (53). JP 11005127 shows an oil channel (55,39,41,43,45) for guiding oil supplied from the ram (via 55) to the tap within the downward movement transmitter and the tap holder (via 39,41,43,45). In view of this teaching of JP 11005127, it would have been obvious to one of ordinary skill in the art to modify the tapping device of Endo et al. '239 to include an oil channel from the ram to the tap as taught by JP 11005127 to provide coolant/oil mist to the cutting surface for reducing wear and heat generation at the tapping tool and work piece interface, thus increasing the tapping effectiveness and overall operational life expectancy.

10. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 11005127 in view of Endo et al. '239. JP 11005127 further shows an oil channel

Application/Control Number:

10/532,729

Art Unit: 3722

(55,39,41,43,45) for guiding oil supplied from the ram (via 55) to the tap within the downward movement transmitter and the tap holder (via 39,41,43,45). JP 11005127 further shows an elastic member (35) which can freely transmit downward motion of the ram at the downward movement transmitter to lower the tap holder against upward energizing force of the tap holder. JP 11005127 lacks work piece brace rotatably provided at a lower end of the shank body.

Endo et al. '239 shows in Figures 1-5 a tapping device (3,5,7,9,11) comprising a tap holder (37A,37B) provided in a shank body (27) and a work piece brace (piece at bottom of 27 at 49A,49B) rotatably provided at a lower end of the shank body. In view of this teaching of Endo et al. '239, it would have been obvious to one of ordinary skill in the art to modify the tapping device of JP 11005127 to include a work piece brace on the shank body as taught by Endo et al. '239 to provide a direct means to secure/stabilize the work piece in place for improved tapping accuracy and efficiency.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 12. Any inquiry concerning the content of this communication from the examiner should be directed to Michael W. Talbot, whose telephone number is 571-272-4481. The examiner's office hours are typically 8:30am until 5:00pm, Monday through Friday. The examiner's supervisor, Mrs. Monica S. Carter, may be reached at 571-272-4475.

In order to reduce pendency and avoid potential delays, group 3720 is encouraging FAXing of responses to Office Actions directly into the Group at FAX number 571-273-8300. This practice may be used for filling papers not requiring a fee. It may also be used for filling papers, which require a fee, by applicants who authorize charges to a USPTO deposit account. Please identify Examiner Michael W. Talbot of Art Unit 3722 at the top of your cover sheet.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MWT

Examiner

3 December 2007

MONICA S. Center

MONICA CARTER

SUPERVISORY PATENT EXAMINED